

CLAIMS

1. (currently amended) A method of automatic creation of a talk group in a wireless radio communication system comprising a plurality of mobile stations, said method comprising ~~the steps of~~:

a) transmitting by a first mobile station an emergency message, wherein said emergency message comprises a first mobile station ID, localization data, and an indication that said emergency message is an emergency message;

b) transmitting by other mobile stations said other mobile stations IDs and localization data in response to said emergency message;

e) creating said talk group by selecting said other mobile stations which transmitted said other mobile stations IDs and localization data.

2. (currently amended) A method according to claim 1, wherein only said other ~~other~~ mobile stations, which are within a predefined distance from said first mobile station, transmits said other mobile stations IDs and localization data.

3. (currently amended) A method according to claim 2, wherein for the radio communication system operating in trunking mode, said predefined distance is limited to the borders of a cell within which said first mobile station is located or to a group of cells.

4. (currently amended) The method according to claim 2, wherein said other mobile stations, ~~which~~ within a distance from said first mobile station ~~is~~ larger than said predefined

distance, transmit said other mobile stations IDs and localization data only if there is no other mobile station within said ~~second~~ predefined distance.

5. (currently amended) The method according to claim 2 ~~[[4]]~~, further comprising ~~the~~ step of:

- a) increasing said predefined distance if no one of said other mobile stations responded to said emergency message; and
- b) re-sending said emergency message.

6. (previously presented) The method according to claim 1, wherein said other mobile stations transmit said other mobile stations IDs and localization data with a predefined delay and said predefined delay increases with increasing distance from said first mobile station.

7. (previously presented) The method according to claim 1, wherein only those of said other mobile stations which are within a predefined distance from said first mobile station are selected to said talk group.

8. (previously presented) The method according to claim 7, wherein some of said other mobile stations, which are located beyond said predefined distance, are selected to said talk group if there is no one mobile station of said other mobile stations within said predefined distance or the number of said other mobile stations is below a predefined threshold.

9. (previously presented) The method according to claim 1, wherein after receiving said IDs and localization data of said other mobile stations, said step of selecting is performed by said first mobile station.

10. (currently amended) The method according to claim 9, wherein after creation of talk group information on said talk group, said talk group information is transmitted to a dispatch centre, said talk group information includes IDs of members of said talk group and said other mobile stations localization data.

11. (currently amended) The method according to claim 1, wherein after receiving said IDs and localization data of said other mobile stations, said step of selecting is performed by an infrastructure device.

12. (currently amended) The method according to claim 1, ~~wherein~~ further comprising adding at least one emergency service unit, determined to be located closest to said first mobile station, ~~is added~~ to said talk group.

13. (currently amended) The method according to claim 10, ~~wherein~~ further comprising [[a]] the dispatch centre transmittings driving directions to said emergency service unit.

14. (previously presented) The method according to claim 1, wherein said localization data are Global Positioning System Data or triangulation based data.

15. (currently amended) The method according to claim 1, wherein said emergency message comprises an indication of a type of emergency service being requested.

16. (previously presented) The method according to claim 1, wherein said emergency message is transmitted to a dispatch centre, and said dispatch centre forwards said emergency message to said other mobile stations.

17. (currently amended) The method according to claim 1, wherein said dispatch centre is also added to said talk group.

18. (currently amended) A mobile station comprising means for signal transmission, means for signal reception, a microphone, an audio processing circuitry, a keypad, a microprocessor, a memory, a localization circuitry, and ~~an~~ emergency switch means being adapted to (i) initiate ~~transmission-broadcast~~ broadcast of an emergency message, said emergency message comprising localization data, an ID of said mobile station and an indication that said emergency message is an emergency message, and to (ii) initiate creation of a talk group comprising all or a subset of other mobile stations responding to said broadcast emergency message.

19. (currently amended) The mobile station according to claim 18 being adapted to wirelessly receive a second emergency messages directly from one of the other mobile stations.

20. (currently amended) The mobile station according to claim ~~19~~18 being adapted to send its ID and localization data in response to the second emergency message ~~received from any one of said other mobile stations.~~

21. (currently amended) The mobile station according to claim 18 being adapted to wirelessly receive responses to the emergency message directly from said other mobile stations.

22. (currently amended) The mobile station according to claim ~~19~~18, wherein said microprocessor being adapted to calculate distances between said mobile station and ~~any one of said other~~ each one of the responding mobile stations.

23. (currently amended) The mobile station according to anyone of claim 18, wherein said microprocessor is adapted to store in said memory localization data and IDs received from each one of the responding ~~said other~~ mobile stations.

24. (currently amended) The mobile station according to claim 23, wherein said microprocessor is adapted to calculate distances between said first mobile station and each one of the responding ~~anyone of said other~~ mobile stations ~~which have responded to said emergency message and to create a~~ select all or the subset of the responding mobile stations for the talk group comprising other mobile stations based on said calculated distances.

25. (previously presented) The mobile station according to claim 18 wherein said localization circuitry is a Global Positioning System unit.

26. (previously presented) The mobile station according to anyone of claim 18 wherein said microprocessor is adapted to calculate localization of said mobile station based on triangulation data.

27. (new) An infrastructure device in a wireless communications system configured to:

receive, from a first mobile station, an emergency message, wherein said emergency message comprises a first mobile station ID, localization data, and an indication that said emergency message is an emergency message;

receive, from other mobile stations, other mobile stations IDs and localization data transmitted by the other mobile stations in response to the emergency message;

dynamically creating a talk group by selecting all or a subset of the responding other mobile stations which transmitted said other mobile stations IDs and localization data.